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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/676,973	09/30/2003	Ikuo Nakano	49814 DIV (70904)	7679
21874	7590 08/25/2004	•	EXAM	INER
	& ANGELL, LLP		HARRINGTON, ALICIA M	
P.O. BOX 558 BOSTON, MA		Control of the Contro	ART UNIT	PAPER NUMBER
MOTED ON SYSTEM		AUG COM	2873 DATE MAILED: 08/25/200	4

Please find below and/or attached an Office communication concerning this application or proceeding.

Edwards & Angell LLP

101 Federal St. Boston MA, 02110

Docketed For

Approved.

Edwards & Angell LLP 101 Federal St.

Foston, MA 02110

	A multi-pati-		
	Application No.	pplicant(s)	
	10/676,973	NAKANO ET AL.	
Office Action Summary	Examiner	Art Unit	
<u> </u>	Alicia M Harrington	2873	*
The MAILING DATE of this communication appeared for Reply	ppears on the cover sheet wit	th the correspondence addre	SS
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR of after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a recommon of the period for reply is specified above, the maximum statutory perion Failure to reply within the set or extended period for reply will, by statue that the mail of the period by the Office later than three months after the mail of the period patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on amount of the period for	A. 1.136(a). In no event, however, may a reply within the statutory minimum of thirty within the statutory minimum of thirty of will apply and will expire SIX (6) MON' ute, cause the application to become AB, ling date of this communication, even if the communication of the commun	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this common the common that it is common to the common that it is common that it	
4) ☐ Claim(s) 10-14 is/are pending in the applicate 4a) Of the above claim(s) is/are withdrest 5) ☐ Claim(s) 10-12 is/are allowed. 6) ☐ Claim(s) 13 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	rawn from consideration.		
Application Papers	·		
9) ☐ The specification is objected to by the Examin 10) ☑ The drawing(s) filed on 07 June 2004 is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the I	a)⊠ accepted or b)⊡ object the drawing(s) be held in abeyan the drawing(s) be the drawing(ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR	
Priority under 35 U.S.C. § 119			
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bure * See the attached detailed Office action for a list	nts have been received. nts have been received in A iority documents have been au (PCT Rule 17.2(a)).	pplication No received in this National Sta	age
Attachment(s)			
Notice of References Cited (PTO-892)		ummary (PTO-413)	
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date)/Mail Date formal Patent Application (PTO-15 ·	2)

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the protection desired.

DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claim 13 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

A broad range or limitation together with a narrow range or limitation that falls within the broad range or limitation (in the same claim) is considered indefinite, since the resulting claim does not clearly set forth the metes and bounds of the patent protection desired. Note the explanation given by the Board of Patent Appeals and Interferences in Ex parte Wu, 10 USPQ2d 2031, 2033 (Bd. Pat. App. & Inter. 1989), as to where broad language is followed by "such as" and then narrow language. The Board stated that this can render a claim indefinite by raising a question or doubt as to whether the feature introduced by such language is (a) merely exemplary of the remainder of the claim, and therefore not required, or (b) a required feature of the claims. Note also, for example, the decisions of Ex parte Steigewald, 131 USPQ 74 (Bd. App. 1961); Ex parte Hall, 83 USPQ 38 (Bd. App. 1948); and Ex parte Hasche, 86 USPQ 481 (Bd. App. 1949). In the present instance, claim 12 recites N≥2 recording layer, and the claim 13 recites "one recording layer" which is the narrower statement of the range/limitation. Therefore, claim 13 is in improper dependent form in that it doesn't include all the limitations of the independent resulting not clearly setting forth the metes and bounds of

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Claim 13 will be examined as best understood by the Examiner.

Response to Arguments

- 3. Applicant's arguments, see pages 15-16, filed 6/7/04, with respect to claims 10-12 have been fully considered and are persuasive. The rejection of claims 10-12 has been withdrawn.
- 4. Applicant's arguments filed 6/7/04 have been fully considered but they are not persuasive in relation to the 35 USC 112 second paragraph rejection of claim 13. As discussed above, claim 13 recites "one recording layer" which is the narrower statement of the range/limitation because claim 13 depends from claim 10;thus, claim 13 must encompass all the limitations of claim 10 plus those recited in claim 13. Therefore, claim 13 is in improper dependent form in that it doesn't include all the limitations of the independent claim as it relates to the number of recording layers N such that N≥2, as defined in claim 10. The claim does not clearly setting forth the metes and bounds of the protection desired.

Allowable Subject Matter

- 5. Claims 10-12 are allowed.
- 6. Claim 13 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
- 7. The following is a statement of reasons for the indication of allowable subject matter: Regarding claim 10, prior art taken either singularly or in combination fails to anticipate or fairly suggest the limitations of the dependent claims, in such manner that a

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rejection under 35 U.S.C 102 or 103 would be proper. The prior art fails to teach a combination of all the claimed features as presented in independent claims, which at least include the N recording layers comprise a first recording layer,..., an Nth recording layer in succession from the objective lens side, and an optical thickness at a mid-point between the first recording layer and the Nth recording layer is represented by t4, p4 and t4 are coincident with each other, and a converged light spot formed at the mid-point between the first recording layer and the Nth recording layer by the objective lens has a minimum spherical aberration when light rays emitted from the spherical-aberration correcting mechanism have a minimum spherical aberration as claimed.

Conclusion

8. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alicia M Harrington whose telephone number is 571 272 2330. The examiner can normally be reached on Monday - Thursday 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Georgia Epps can be reached on 571 272 2328. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Alicia M Harrington Examiner Art Unit 2873

AMH AMH

Georgia Epps
Supervisory Patent Examiner
Technology Center 2800